

Appendix D

Study Plans Under Implementation

APPENDIX D

STUDY PLANS UNDER IMPLEMENTATION

The Oroville Relicensing ALP has allowed stakeholders from federal, State and local governments and resource agencies, Indian Tribes, NGOs, and individuals to cooperatively develop 71 study plans. Study plans have been developed by resource-specific Task Forces and Work Groups, and reviewed by the Plenary Group participants for consensus. Study plans have been developed to address issues identified during the formal scoping process and series of public meetings and to fulfill regulatory requirements associated with relicensing.

Study plans were developed at resource-specific Task Force and Work Group meetings, based on issue sheets, stakeholder participation, and comments on Draft SD1. Appendix B of this Final SD1 includes all of the issues, concerns, and comments identified in Appendix B and C of Draft SD1. Appendix B lists each issue, concern, or comment and tracks the issue through the ALP by identifying relevant studies or where the issue is expected to be addressed. This appendix allows for tracking through study plans and settlement.

The Plenary Group meets regularly to discuss issues and review the progress of all Work Groups. The Plenary Group has reviewed the study plans, focused Work Groups on important subjects, and reached consensus on final study plans. Copies of the study plans can be obtained from Sue Larsen at DWR (916-653-4658).

Note: Critical Path Studies in Bold

Land Use, Land Management and Aesthetics

- SP-L1 Land Use**
- SP-L2 Land Management
- SP-L3 Comprehensive Plan Consistency
- SP-L4 Aesthetics**
- SP-L5 Fuel Load Management

Recreation and Socioeconomics

- SP-R1 Public and Private Vehicular Access
- SP-R2 Recreation Safety Assessment
- SP-R3 Assess Relationship of Project Operations and Recreation
- SP-R4 Assess Relationship of Fish/Wildlife Management and Recreation
- SP-R5 Assess Recreation Areas Management
- SP-R6 ADA Accessibility Assessment

SP-R7 Reservoir Boating Survey

SP-R8 Carrying Capacity Study

SP-R9 Existing Recreation Use Study

SP-R10 Recreation Facility and Condition Inventory

SP-R11 Recreation and Public Use Impact Assessment

SP-R12 Projected Recreation Use

SP-R13 Recreation Surveys

SP-R14 Assess Regional Recreation and Barriers to Recreation

SP-R15 Recreation Suitability Study

SP-R16 Whitewater and River Boating

SP-R17 Recreation Needs Analysis

SP-R18 Recreation Activity, Spending, and Associated Economic Impacts

SP-R19 Fiscal Impacts

Engineering and Operations

SP-E1 Model Development

SP-E1.1 Statewide Operations Model Development

SP-E1.2 Local Operations Model Development

SP-E1.3 Oroville Reservoir Temperature Model Development

SP-E1.4 Thermalito Complex Temperature Model Development

SP-E1.5 Feather River Temperature Model Development

SP-E2 Perform Modeling Simulations

SP-E3 Evaluate the Potential for Additional Hydropower Generation at Oroville

SP-E4 Flood Management Study

SP-E6 Downstream Extent of Reasonable Control of Feather River Temperature by Oroville-Thermalito

SP-E7 Oroville Reservoir Cold Water Pool Evaluation

SP-E8 Temperature Impacts of Pumpback Operation on Oroville Reservoir Cold Water Pool

Cultural Resources

- SP-C1 Cultural Resources Inventory**
- SP-C2 Cultural Resources Evaluation
- SP-C3 Cultural Resources Management
- SP-C4 Cultural Resources Interpretive Evaluation

Environmental - Terrestrial

- SP-T1 Effects of Project Features and Operation on Wildlife and Wildlife Habitat
- SP-T2 Project Effects on Special Status Species**
- SP-T3/5 Riparian Resources, Wetlands and Associated Floodplains
- SP-T4 Biodiversity, Vegetation Communities and Wildlife Habitat Mapping**
- SP-T6 Interagency Wildlife Management Coordination and Wildlife Management Plan Development
- SP-T7 Project Effects on Noxious Terrestrial and Aquatic Plant Species
- SP-T8 Project Effects on Non-Native Wildlife
- SP-T9 Recreation and Wildlife
- SP-T10 Effects of Project Features, Operations, and Maintenance on Upland Plant Communities
- SP-T11 Effects of Fuel Load Management and Fire Prevention on Wildlife and Plant Communities

Environmental - Geomorphology

- SP-G1 Effects of Project Operations on Geomorphic Processes Upstream of Oroville Dam**
- SP-G2 Effects of Project Operations on Geomorphic Processes Downstream of Oroville Dam

Environmental – Water Quality

- SP-W1 Project Effects on Water Quality Designated Beneficial Uses for Surface Waters**
- SP-W2 Contaminant Accumulation in Fish, Sediments and the Aquatic Food Chain**
- SP-W3 Recreational Facilities and Operations Effects on Water Quality
- SP-W5 Project Effects on Groundwater

- SP-W6 Project Effects on Temperature Regime
- SP-W7 Land and Watershed Management
- SP-W9 Project Effects on Natural Protective Processes

Environmental – Fisheries

- SP-F1 Evaluation of Project Effects on Non-fish Aquatic Resources**
- SP-F2 Evaluation of Project Effects on Fish Diseases**
- SP-F3.1 Evaluation of Project Effects on Fish and Their Habitat within Lake Oroville, it's Upstream Tributaries, the Thermalito Complex, and the Oroville Wildlife Area**
- SP-F3.2 Evaluation of Project Effects on Non-salmonid Fish in the Feather River Downstream of the Thermalito Diversion Dam**
- SP-F5/7 Evaluation of Fisheries Management on Project Fisheries**
- SP-F8 Transfer of Energy and Nutrients by Anadromous Fish Migrations
- SP-F9 Evaluation of the Feather River Hatchery Effects on Naturally Spawning Salmonids**
- SP-F10 Evaluation of Project Effects on Salmonids and their Habitat in the Feather River Below the Fish Barrier Dam.**
- SP-F15 Evaluation of the Feasibility to Provide Passage for Targeted Species of Migratory and Anadromous Fish Past Oroville Facility Dams
- SP-F16 Evaluation of Project Effects on Instream Flows and Fish Habitat**
- SP-F21 Project Effects on Predation of Feather River Juvenile Anadromous Salmonids

Study Plans Still Under Consideration

- SP-E1.6 Feather River Flow-Stage Model Development